

AMENDMENTS TO THE ABSTRACT

Please insert the following abstract:

The invention relates to a method for characterizing a ferroelectric material, comprising application of an electric voltage to a sample of said ferroelectric material, measuring the electric current flowing through said sample, and joint treatment of the applied voltage signal and the measured current signal in order to provide representation data characterizing the polarization of the ferroelectric material. The method also includes controlling the applied electric voltage in such a way that superpositioning can be performed for a first current component having a large signal amplitude at a first frequency and a second current component having a second small signal amplitude at a second frequency which is much greater than the first frequency, and identifying the characteristics of the ferromagnetic material respectively associated with locally reversible polarization effects and locally irreversible polarization effects. The invention can be used for scientific instrumentation equipment and in material production lines.